This project involves the modification of an existing Traffic Control Signal at the intersection of MD 26 and MD 355 in Frederick County. The street lighting is existing. The existing Hazard Identification Beacon located approximately 1900' west of the intersection shall be interconnected with the signalized intersection. The H.I.B.'s sign and controller cabinet shall be replaced.

MD 26 is assumed to run in an east-west direction.

## II. INTERSECTION OPERATION

- 1. The intersection operates in a NEMA four-phase, fullyactuated mode, with the MD 26 approaches running concurrently. The MD 355 approaches also run concurrently. The H.I.B. will flash when MD 26 has a yellow or red indication.
- The existing full-traffic-actuated, eight-phase controller housed in a NEMA size "5" pole-mounted cabinet shall be uitilized at the intersection. The cabinet at the H.I.B. shall be changed over to a NEMA size "G" pole-mounted cabinet and controller

## III. SPECIAL NOTES:

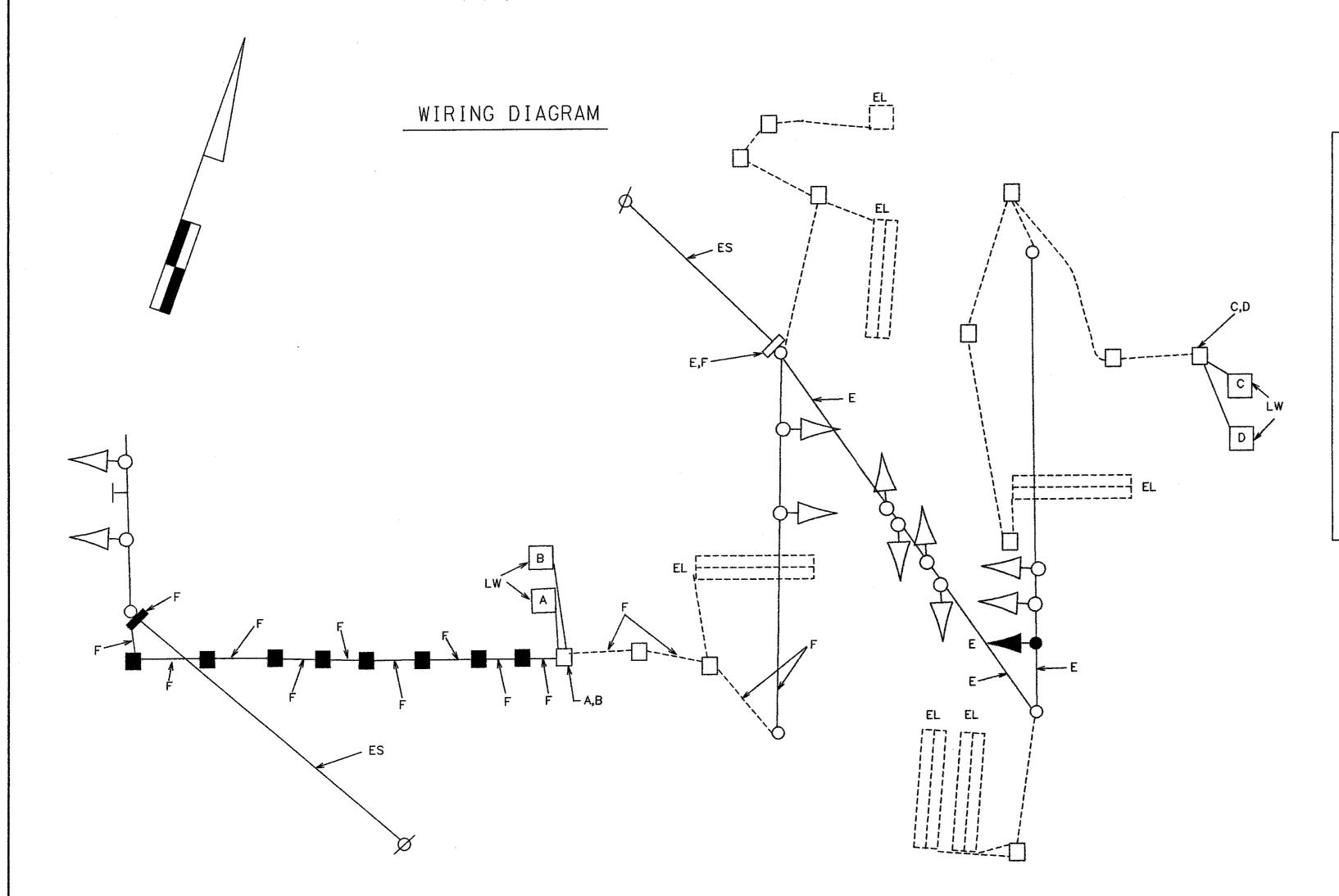
UTILITY LEGEND

—— G—— GAS MAIN

\_\_\_\_w \_\_\_ WATER MAIN

\_\_\_s \_\_\_s SEWER MAIN

1. Upon completion of this project, the Contractor shall notify Mr. Ed. Rodenhizer at (410) 787-7652 to arrange for the internal wiring of the existing intersection controller cabinet. The Contractor is to provide Mr. Rodenhizer with 48 hours advance notice and to have all the cables properly indentifed.



## EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY S.H.A. AND INSTALLED BY THE CONTRACTOR. NO. QUANTITY DESCRIPTION 9044 1 EA. 12", one-way, three-section (R,Y,G) traffic signal head having proper span wire hangers, balance adjusters and tunnel visors. 9000 1 EA. NEMA size " G " pole-mounted cabinet.and necessary equipment to interconnect H.I.B. to the intersection. 9089 50 S.F. Flat sheet aluminum sign (yellow) to consist of: 1 EA. W3-3(2) "SIGNAL AHEAD PREPARE TO STOP WHEN FLASHING" sign (5' x 10') mast arm mounted Bottom plate for NEMA size "5" pole mounted

ITEM NO. QUANTITY DESCRIPTION Maintenance of traffic. 1001 Install traffic signal heads. Install pole-mounted cabinet and contoller. Furnish and install sawcut. Furnish and install 1" galvanized steel electrical conduit (detector wire sleeve). Furnish and install 2" polyvinyl chloride 8024 1475 L.F. electrical conduit (Schedule 80) (trenched). Furnish and install handhole (frame and cover). Furnish and install 12 pair communication cable 8039 2300 L.F. jellyfilled, underground. Furnish and install loop wire (No. 14 A.W.G.) 8040 550 L.F. encased in  $\frac{1}{4}$ " flexible tubing. 8044 300 L.F. Furnish and install 5-conductor electrical cable (No. 14 A.W.G.). Install overhead mounted sheet aluminum sign. Furnish and install bend into an existing base. 8065 Removal of existing flasher cabinet. 2" blind coupling. 1 EA.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

SPLICE PROPOSED LOOP
WIRE INTO THE EXISTING
2- CONDUCTOR ELECTRICAL
CABLE (NO. 14 A.W.G.)
(ALUMINUIM SHIELDED)

E — 5- CONDUCTOR ELECTRICAL

E — 5- CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

- 12 PAIR COMMUNICATION CABLE (UNDERGROUND)

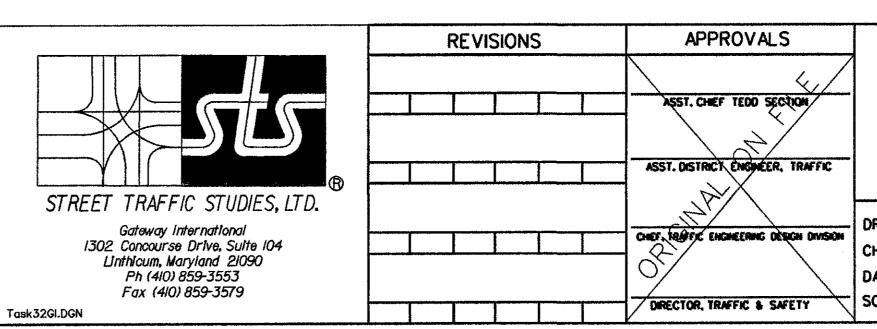
LW -LOOP WIRE

EL - EXISTING LOOP WIRE

ES — EXISTING OVERHEAD SERVICE BY ALLEGHANY POWER

- 	PHAS	SE C	CHAF	T						
1	2	3	4	5	6	7	8	9	10	11
$\odot$	$\odot$	(R) (Y) (G)	(F) \( \sigma \)	(R Y) G	RYG	(R) (G)	(R) (S)	RYG	R S G	R Y G
DARK					C		מ	Đ	D	_ 1

PHASE 2 & 6	DARK	DARK	G	G	G	G	G	R	R	R	R	4
2 & 6 CHANGE	FL/Y	FL/Y	Y	Y	Y	Y	Y	R	R	R	R	}
PHASE 4 & 8	FL/Y	FL/Y	R	R	R	R	R	G	G	G	G	П
4 & 8 CHANGE	FL/Y	FL/Y	R	R	R	R	R	Υ	Υ	Y	Y	<b>\</b>
FLASHING OPERATION	DARK	DARK	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	4



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

**AFFIC ENGINEERING DESIGN DIVISION**MD 26 and MD 355
GENERAL INFORMATION

RAWN B	Y: Milesky	_ COUNT
HECK B	PMA	_ LOG M
ATE:	APRIL 21, 1999	_ F.A.P.
CALE: _	N\A	S.H.A.

NTY: _	FREDERICK	
MILE:	10002600.53	
P. NO	AC-STPG-000S(591)E	1
A. NO.	W280 ASJ/	C
	851	

SHEET NO.

2 OF 2